WIRE DRIG

6941

Additional work 1944

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey WIRE DRAG



LOCALITY

General locality Aleutian Islands

Locality Massacre Bay, Attu Island

194 4

CHIEF OF PARTY

Roland D. Horne, Lieut. Comdr., C&GS

LIBRARY & ARCHIVES

JAN 20 1945

Additional work 1944

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 6940a

REGISTER NO.

StateAlaska
General locality Aleutian Islands
Locality Massacre Bay, Attu Island
Scale 1:10,000 Date of survey July 14, 17 , 19 44
Vessel EXPLORER
Chief of Party Roland D. Horne
Surveyed by George R. Shelton
Protracted by R.D. Goodrich
Soundings penciled by
Soundings in fathoms feet
Plane of referenceMLLW
Subdivision of wire dragged areas by R.D. Goodrich
Inked by R.D. Goodrich
Verified by J.A. Mc Cormick
Instructions dated March 25, 1944 , 19
Remarks:

U. S. GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT TO ACCOMPANY WIRE DRAG SHEET NO. 6940a

MASSACRE BAY, ATTU ISLAND

SHIP EXPLORER 1944

Instructions:

Project CS-218, dated March 25, 1944 and verbal request from the Captain of the Port, Massacre Bay.

Equipment:

Two regular hydrographic launches from the EXPLORER were used to tow the drag with a motor whaleboat as drag tender. The drag was set out and picked up by the EXPLORER.

The standard wire drag was used. The ground wire was 3/16" stranded galvanized wire equipped with patent fieges. Aluminum toggles were used. The bouys were of the latest design, all steel construction.

The tester was the standard type with regulation markings and a greased iron rod at the bottom to register lift.

Method of Survey:

The drag strips were plotted with dual launch control, each launch plotting independent positions on duplicate boat sheets. The mail ship channel was dragged to an effective depth of 39 feet, the small boat channel was dragged to an effective depth of 18 feet.

A fifteen hundred foot drag was used with four intermediate bouys. The effective length of the tow line was 215 feet, allowing fifteen feet for half the length of the launch, the angles being taken from amidship and the tow line being attached near the stern of the launch.

List of Groundings:

There were no important groundings in this survey.

Records:

All reducers have been entered and checked. The effective depth diagrams have been drawn and checked. All end launch and tender records have been copied into the guide launch record and copy checked.

Tidal Note:

Automatic tide gage on Navy Pier No. 1, Massacre Bay, Attu Island. Staff reading of 3.9 feet for MLLW was used.

STATISTICS, Wire-drag sheet No. 6940e

Date	Letter	Volume	Drag Length	Positions	Miles stat.	Soundings
July 14, 1944	A	1	1500	18	2.3	
July 17, 1944	В	1	1500	67	8.5	ı

Respectfully submitted,

George R. Shelton Lieut. Comdr. C&GS

Approved and forwarded:

Roland D. Horne, Lieut. Comidr., C&GS

Commanding Officer Ship EXPLORER

	•
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	
L.O. Calbert, Director.	
State: Alaska	
OBSERVATIONS	
HORIZONTAL ANGLES	
LOCALITY	
Aleutian Islands	
Attu I Massacre Boy	
-INSTRUMENT	
3-paint observations at O. P.A.	4 5.
Computations are attached to	
Descriptive Report for sheet H-6941	
. 19 <i>44</i>	
CHIEF OF PARTY	
P.D. Horne	
GOVERNMENT PRINTING OFFICE 11-7	27

DEPARTMENT OF COMMERCE U s. COAST AND GEODETIC SURVEY FORM 250

HORIZONTAL

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DEPARTMENT OF COMMERCE U S. COAST AND GEODETIC SURVEY FORM 250

HORIZONTAL

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DEPARTMENT OF COMMERCE EXPLORER 1944 - Comp.
U.S. COAST AND SECONTIC SURVEY
FORTH 28 B

GEOGRAPHIC POSITIONS

Accession No. of Computation: Datum U.S. Navy (Fannet) 1934 - recomputed Massacro Bay, Attu 1. DISTANCE LATITUDE AND LONGITUDE Seconds in Meters STATION AZIMUTH BACK AZIMUTH TO STATION LOGARITHM (METERS) (847.4) Jab center squ. twr. 1007.3 (307.5) 815.6 173 12 43.57

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
FORM ST
Ed. April, 1929

POSITION COMPUTATION, THIRD-ORDER TRIANGULATION

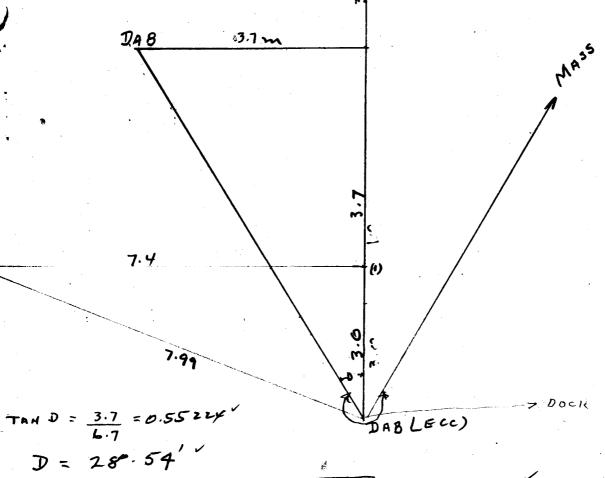
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DEPARTMENT OF COMMERCE
U. 8. COAST AND GEODETIC SURVEY
PROFIN 27
Rd. April. 1929

POSITION COMPUTATION, THIRD-ORDER TRIANGULATION

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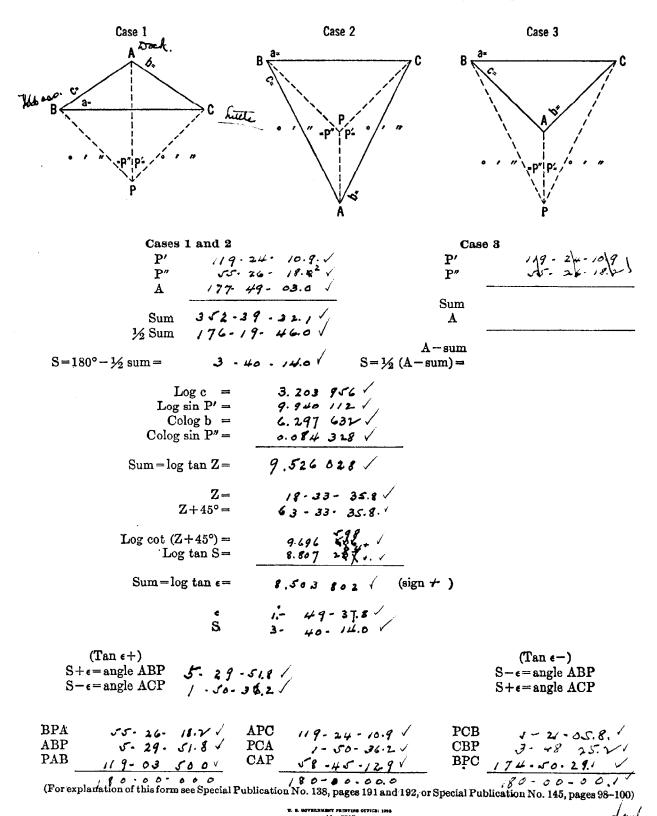
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DEPARTMENT OF COMMERCE IL & COAST AND GEODETIC SURVEY FORM 25 Ed. Jan., 1929

DEP	ARTME!	NT OF COMMERCE	400					
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		—9121	State:			8		
	NO.	STATION	OBSERVED ANGLE	CORR'N	Spher'l Angle	SPHER'L EXCESS	PLANE ANGLE AND DISTANCE	LOGARITHM
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COMPUTATION OF THREE-POINT PROBLEM



DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY FORM 662 Rev. April, 1931

INVERSE POSITION COMPUTATION

$$\begin{aligned} & s_1 \sin \left(\alpha + \frac{\Delta \alpha}{2}\right) = \frac{\Delta \lambda_1 \cos \phi_m}{\Lambda_m} \\ & s_1 \cos \left(\alpha + \frac{\Delta \alpha}{2}\right) = \frac{-\Delta \phi_1 \cos \frac{\Delta \lambda}{2}}{B_m} \\ & -\Delta \alpha = \Delta \lambda \sin \phi_m \sec \frac{\Delta \phi}{2} + F(\Delta \lambda)^3 \end{aligned}$$

in which $\log \Delta \lambda_1 = \log (\lambda' - \lambda)$ —correction for arc to \sin^* ; $\log \Delta \phi_1 = \log (\phi' - \phi)$ —correction for arc to \sin^* ; and $\log s = \log s_1 + \cos t$ correction for arc to \sin^* .

		NAME O	F STATION	
•	1. φ 2. φ'	52- 48- 06699 hutt		173- 10- 54.603. 173- 13- 28.562
	$ \frac{\Delta\phi}{2} (=\phi' - \phi) $ $ \frac{\Delta\phi}{2} $ $ \phi_{\rm m} \left(=\phi + \frac{\Delta\phi}{2}\right) $	03. 13.425	$\frac{\Delta\lambda}{2} (=\lambda'-\lambda)$	2 · \$3959 n.
	Δφ (secs.)	52- 49-43.411 *43.475	Δλ (secs.)	153.959.
	$\begin{array}{l} \log \Delta \phi \\ \text{cor. arc-sin} \\ \log \Delta \phi_1 \\ \log \cos \frac{\Delta \lambda}{2} \\ \text{colog B}_m \\ \log \left\{ s_1 \cos \left(\alpha + \frac{\Delta \alpha}{2} \right) \right\} \end{array}$	2. 286 51χ	$\begin{array}{c} \log \Delta \lambda \\ \text{cor. arc-sin} \\ \log \Delta \lambda_1 \\ \log \cos \phi_m \\ \text{colog } \mathbf{A}_m \\ \log \left\{ \mathbf{s}_1 \sin \left(\alpha + \frac{\Delta \alpha}{2} \right) \right\} \\ \log \left\{ \mathbf{s}_1 \cos \left(\alpha + \frac{\Delta \alpha}{2} \right) \right\} \end{array}$	7. 187 405 n. 7. 187 405 n. 9. 281 180 1.491 709 3. 249 79 4 n. 3. 7766 41n
	$egin{aligned} & oldsymbol{\Delta} \ & oldsymbol{\log sin} \ \phi_{m} \ & oldsymbol{\log sec} \ rac{\Delta \phi}{2} \ & oldsymbol{\log a} \end{aligned}$	2.187 405 m. 3 log Δλ 9.901 367 log F log b	$\log \tan \left(\alpha + \frac{\Delta \alpha}{2}\right)$ $\alpha + \frac{\Delta \alpha}{2}$ $\log \sin \left(\alpha + \frac{\Delta \alpha}{2}\right)$ $\log \cos \left(\alpha + \frac{\Delta \alpha}{2}\right)$	9. 9 4 3 1 5 3 m. 20 5-9 44- 22.3. 9.707 695 9 637 770 9.934 543 9.954617
<i>f</i> :	a b	-177.68-	log s ₁ cor. arc—sin	3.842 09 43.8220 × 4
	$-\Delta \alpha \text{ (secs.)}$ $-\frac{\Delta \alpha}{2}$ $\alpha + \frac{\Delta \alpha}{2}$	+ 177.68 + 61.34 205 44 27.3 200 48 - 250	log s	3.847,098 3.822074
	α (1 to 2) Δα	78 - 85 8 23 - 4x - 26 84 02. 02.68	*Use the table on the arc to sin.	e back of this form for correction of
	α' (2 to 1)	30 - 39 +3.66 25 - 43 - 24 - 3		

Note.—For log s up to 4.52 and for $\Delta \phi$ or $\Delta \lambda$ (or both) up to 10', omit all terms below the heavy line except those printed (in whole or in part) in heavy type or those understood, if using logarithms to 6 decimal places.

 $Table\ of\ arc\text{-}sin\ corrections\ for\ inverse\ position\ computations$

		7 G000 07 G	10-8111 0017001	ions for inverse	position comp				
log s _t	Arc-sin correction in units of seventh decimal of logarithms	log Δφ or log Δλ	log sı	Arc-sin correction in units of seventh decimal of logarithms	log Δφ or log Δλ	log sı	Arc-sin correction in units of seventh decimal of logarithms	log Δφ or log Δλ	-
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4. 566 4. 599 4. 628 4. 654 4. 677	6 7 8 9	3. 075 3. 108 3. 137 3. 163 3. 186	5. 269 5. 279 5. 287 5. 294 5. 303	153 160 166 172 179	3, 778 3, 788 3, 796 3, 803 3, 812	5. 548 5. 553 5. 557 5. 561 5. 566	553 565 577 588 600	4. 057 4. 062 4. 066 4. 070 4. 075	:
4. 697 4. 716 4. 734 4. 750 4. 765	11 12 13 14 15	3. 206 3. 225 3. 243 3. 259 3. 274	5. 311 5. 318 5. 326 5. 334 5. 341	186 192 199 206 213	3. 820 3. 827 3. 835 3. 843 3. 850	5. 570 5. 575 5. 579 5. 583 5. 587	613 625 637 650 663	4. 079 4. 084 4. 088 4. 092 4. 096	
4. 779 4. 792 4. 804 4. 827 4. 857	16 17 18 20 23	3. 288 3. 301 3. 313 3. 336 3. 366	5. 349 5. 356 5. 363 5. 369 5. 376	221 228 236 243 251	3. 858 3. 865 3. 872 3. 878 3. 885	5. 591 5. 595 5. 600 5. 604 5. 608	674 687 702 716 729	4. 100 4. 104 4. 109 4. 113 4. 117	
4. 876 4. 892 4. 915 4. 936 4. 955	25 27 30 33 36	3. 385 3. 401 3. 424 3. 445 3. 464	5. 383 5. 390 5. 396 5. 403 5. 409	259 267 275 284 292	3. 892 3. 899 3. 905 3. 912 3. 918	5. 612 5. 616 5. 620 5. 624 5. 628	743 757 771 785 800	4. 121 4. 125 4. 129 4. 133 4. 137	r
4. 972 4. 988 5. 003 5. 017 5. 035	39 42 45 48 52	3. 481 3. 497 3. 512 3. 526 3. 544	5. 415 5. 422 5. 428 5. 434 5. 440	300 309 318 327 336	3. 924 3. 931 3. 937 3. 943 3. 949	5. 632 5. 636 5. 640 5. 644 5. 648	814 829 845 861 877	4. 141 4. 145 4. 149 4. 153 4. 157	:
5. 051 5. 062 5. 076 5. 090 5. 102	56 59 63 67 71	3. 560 3. 571 3. 585 3. 599 3. 611	5. 446 5. 451 5. 457 5. 462 5. 468	345 354 364 373 383	3. 955 3. 960 3. 966 3. 971 3. 977	5. 652 5. 656 5. 660 5. 663 5. 667	893 909 925 941 957	4. 161 4. 165 4. 169 4. 172 4. 176	7
5. 114 5. 128 5. 139 5. 151 5. 163	75 80 84 89 94	3. 623 3. 637 3. 648 3. 660 3. 672	5. 473 5. 479 5. 484 5. 489 5. 495	392 402 412 422 433	3. 982 3. 988 3. 993 3. 998 4. 004	5. 671 5. 674 5. 678	973 989 1005	4. 180 4. 183 4. 187	Ç
5. 172 5. 183 5. 193 5. 205 5. 214	98 103 108 114 119	3. 681 3. 692 3. 702 3. 714 3. 723	5. 500 5. 505 5. 510 5. 515 5. 520	443 453 464 474 486	4. 009 4. 014 4. 019 4. 024 4. 029				

List of Signals

H-6941

Additional Work - 1944

The following signals already are on the smooth sheet;

CAS MAR A TANK
A FLAG PON VEE
A LITTLE SON
A MASS WAY

Signals WAT and BIG are on smooth sheet H-6959. (1943)

New Signals:

DOCK (USN) Scaife 1945

DAB Computed 5 point fix 1944. See Report.

DER H-6940, Vol. 1, page 47.

LEE H-6940 (1943)

NOTE:

See D.R. H-6940 for correction to be applied to Δ DOCK: -30,068" Lat.
-03.380" Long.

List of Signals

H-6941

Additional Work - 1944

The following signals already are on the smooth sheet:

	CAS	mar /	A TANK
Δ	FT.AC	POM /	VER 🗸
Δ	LITTLE -	SOM 🗸	
Δ	MASS	WAT	

Signals WAT and BIG are on smooth sheet H-6959.

New Signals:

△ DOCK ✓	DOCK (USM) Scaife 1943
DAB 🗸	Computed 3 point fix 1944. See Report.
DISB 🗸	H-6940, Vol. 1, page 47.
LEE	H-6940

Massacre Bay Wire Drag

Statistics

H-6941 - Additional Work - 1944

Date	Day	Vol. No.	Drag Length	No. of Positions	Mi. of Drag Strip	Soundings
7/14/44	A	1	1500	18	2.3	
7/17/44	В	1	1500	67	8.5	1
***************************************		1		85	10.8	1

Massacre Bay - Attu Island

Pidal Note

Additional Work - 1944 - H-6939, H-6940, & H-6941

Massacre Bay

Standard Automatic Gage on Navy Pier No. 1

Latitude 52° 5025

Longitude 173 11.7

Staff Reading of MLLW as fixed by the Washington Office 3.94 feet

H-6941 Additional Work - 1944

Seattle Processing Office Notes

A three point position observed with theodolite gives the following computed position for DAB:

Latitude 52° 50° 32.59

Longitude 173 12 43.57

The object is the center of a square tower. Computations are attached.

The records have been reduced and checked by the Seattle Processing Office and forwarded to Washington for plotting on the original smooth sheet.

Respectfully submitted,

Edgar E. Smith

Cartographic Engineer

Approved and Forwarded:

F. H. Hardy

Officer in Charge,

Seattle Processing Office.

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. H6941 Additional Work 1944

Records accompanying survey:
Boat sheets; sounding vols; wire drag vols;
bomb vols; graphic recorder rolls;
special reports, etc
The following statistics will be submitted with the cartog- rapher's report on the sheet:
Number of positions on sheet 35.
Number of positions checked
Number of positions revisedQ
Number of soundings recorded
Number of soundings revised (refers to depth only)
Number of soundings erroneously spaced
Number of signals erroneously plotted or transferred
Topographic details Time
Junctions Time
Verification of soundings from graphic record Time
Werification by .J.A. McCormick Total time 6. hr. Date 4/24/44.
Review by J.A. McCormick Time 2 hr. Date 4/24/44.



Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

January 23, 1945.

Division of Hydrography and Topography:

Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in wire drag l volumes of sounding records for Additional Work

HYDROGRAPHIC SHEET 6941

Locality Massacre Bay, Attu Island, Aleutian Islands, Alaska.

Chief of Party: R. D. Horne in 1944
Plane of reference is mean lower low water reading
3.9 ft. on tide staff at of June 20, 1944 at Massacre Bay
6.5 ft. below B. M. 1

Height of mean high water above plane of reference is 3.3 feet.

Condition of records satisfactory except as noted below:

acting Chief, Division of Tides and Currents.

E. S. GOVERNEENT PRINTING OFFICE 154827

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6941 W.D. Add'l Work

Aleutian Islands; Attu Island; Massacre Bay Surveyed in July, 1944, Scale 1:20,000 Project CS 218

Wire Drag

Dual Control

Chief of Party - R. D. Horne
Surveyed by - G. R. Shelton
Protracted by - R. D. Goodrich
Inked by - R. D. Goodrich
Verified and reviewed by - J. A. McCormick
Inspected by - H. W. Murray, April 24, 1944.

The 1944 additional drag work in Massacre Bay satisfactorily supplements the original work of 1943. Made at the request of the Captain of the Port, the work was well done despite the difficulties of maneuvering between navigational buoys and shoals. There were no important groundings nor were there any conflicts between effective depths and the hydrography of H-6940 (1943) and Chart 9128 (Print of Jan. 16, 1945)

Chart Division

Chief, Section of Hydrography

Examined and Approved:

Chief, Chart Division

Chief, Division of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. H 6941 Add'l Work 1944

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6-21-45	9198	2.m.a.	Before After Verification and Review No correction
	•		
June 45	8865	2.m.a.	Before After Verification and Review "
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Lely 2, 45	9102	3.m.a.	Before After Verification and Review "
Sppt: 10,1945	9128	grwalber	n to transfer
11-4-92	VA23	Ed Marts	Before After Verification and Review
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M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

6941 WIRE DRAG SURVEY.

WIRE DRAG SURVEY.

6941

U. S. COAST AND GEODETIC SURVEY DESCRIPTIVE REPORT Type of Survey Wire Drag Field No. Office No. H-6941 LOCALITY State Locality Aleutian Islands Locality Attu Island Massatre Bay 1943						
DESCRIPTIVE REPORT Type of Survey Wire Drag Field No. Office No. H-6941 LOCALITY State Locality Aleutian Islands Locality Attu Island Massatre Bay						
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Marie Company Company						
CHIEF OF PARTY						
G. C. Mattison						
LIBRARY & ARCHIVES						
DATE						

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. GOVERNMENT PRINTING OFFICE

H-6941 - Wire Drag

Aleutian Islands - Attu Island

Massacre Bay

by the EXPLORER

G. C. Mattison, Comdg.

August, 1945

Scale 1:20,000

Methods -

Using 1800 to 2400 foot wire drag in 300 and 400 foot sections, towline 100 and 200 feet long. Each end of drag separately located by sextant fixes.

Datum-

U. S. Navy astronomical datum as determined in 1934 in Chichagof \checkmark Harbor.

Control -

Based on 1943 triangulation by the HYDROGRAPHER; signals expanded therefrom by sextant cuts. Cuts in Vel. 17 of H-6940. See reports for H-6939 and H-6940 where full explanations of control are given. The hydrographic cuts were not replotted on H-6941, but were transferred from H-6939 (1:20,000) or scaled and replotted from H-6940 (1:10,000).

Records -

The end launch record and the tender record have been copied into the guide launch book.

Split -

There is a small split at Latitude 52° 4712 Longitude 175° 1819, between the end of one strip and the start of another strip. The boat sheet of does not show this split. The field party drew a reverse curve from the

pletted buoy to the guide launch position 1B at the start of B day. This is probably allowable. While the end launch position was not given at that time, the field party did know the position of the plotted buoy and could tell whether the drag was against it. At Pos. 38A day the field party drew the ending bight to Pos. 1A by mistake. These two items covered on the boat sheet the area shown as a split on the smooth sheet.

Statistics -

Statute Miles Drag Strip

Number of Popitions 144

Area dragged - Sq. Stat. Miles 5.2

This report was prepared by the Seattle Processing Office.

Edgar E. Smith

15.4

Assoc. Cart. Engineer

Approved and Forwarded:

F. H. Hardy

Officer in Charge

Tidal Note

H-6941 - Wire Drag

Aleutian Islands - Attu Dsland Massacre Bay

> Surveyed by the EXPLORER G. C. Mattison, Comdg. 1945

Massacre Bay

Portable Automatic Gage

Latitude

52° 50 145

Longitude

173 11.65

Staff Reading of MLLW 5.7 feet

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Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. H6441

Records accompanying survey:	
Boat sheets; sounding vols;	wire drag vols;
bomb vols; graphic recorder roll	s;
special reports, etc	• • • • • • • • • • • • • • • • • • • •
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The following statistics will be submitted rapher's report on the sheet:	with the cartog-
Number of positions on sheet	.144.
Number of positions checked	7.
Number of positions revised	
Number of soundings recorded	••••
Number of soundings revised (refers to depth only)	••••
Number of soundings erroneously spaced	••••
Number of signals erroneously plotted or transferred	• • • •
Topographic details Time	
Junctions Time	• • • •
Verification of soundings from graphic record Time	••••
Verification by A. M. Cormick. Total time	5 hrs Date 9/8/44.
Review by J.A.McCormick Time	2 hrs. Date 9/8/44.

MEMORANDUM IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT	No.	Н	H6941		received registered verified
PHOTOSTAT OF	No.	Τ			reviewed
				- (approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE	Initial	Attention called to
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FORM 712 DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 21, 1944

Division of Hydrography and Topography:

/ Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in drag 3 volumes of sounding records for

HYDROGRAPHIC SHEET 6941

Locality Aleutian Islands, Attu Island, Massacre Bay, Alaska

Chief of Party: G. C. Mattison in 1943 Plane of reference is mean lower low water 3.7 ft. on tide staff at Massacre Bay 6.5 ft. below B. M. 1

Height of mean high water above plane of reference is 3.3 ft.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

отвиният галитие отпов 154

DIVISION OF CHARTS

REVIEW SECTION -- SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY REGISTRY NO. 6941 W.D.

Aleutian Islands: Attu Island: Massacre Bay Surveyed in August-October 1943, Scale 1:20,000 Project CS 218

Wire Drag

Dual Control

Chief of Party - G. C. Mattison Surveyed by - S. B. Grenell Protracted by - W. M. Martin Subdivision of dragged areas by - W. M. Martin Inked by - W. M. Martin Verified and reviewed by - J. A. McCormick Inspected by - H. R. Edmonston, September 8, 1944

Made under instructions from the Survey's Liaison Officer at Adak, the survey apparently was intended to cover only principal approaches to Massacre Bay. Inspection of hydrographic surveys H-6939 and H-6940 of 1943 shows that effective depths of 40 or more feet probably could have been used in the 28 and 29 foot strips on the south. The three shoal soundings obtained at the inshore ends of these two strips are in accord with the hydrography. Limits of the dragged areas have been added to chart 9128 (print of Jan. 22, 1944) from the EXPLORER's advance blueprints. The chart should be revised to agree with the reviewed survey. Buoys in the area have been shifted around to better mark the dragged strips.

Examined and approved:

Chief, Surveys Branch

Chief, Section of Hydrography

Coastal Surveys

Chief, Division of

Chief, Division of Charts

NAUTICAL CHARTS BRANCH

SURVEY NO. 4 6941

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Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
June 1945	8865	Э.т. a.	Before After Verification and Review
9/10/45	9128	grw	-Before After Verification and Review Green plate connected
11-4-92	16423	SIMAD	Before After Verification and Review New Chart
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M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

Partially applied to Cht 9128 before Ver. Let. aug. 10 1944 HFD.

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